

**ORIGINAL**

Form 3

STATE OF ILLINOIS  
ILLINOIS COMMERCE COMMISSION

**RECEIVED**  
MAY 5 2004

Petition for permission to make a major change in crossing protection, or to install new protection under 92 Illinois Administrative Code 1535.400 (d)

Illinois Commerce Commission  
RAIL SAFETY SECTION

X-12158

703-0089

Date: April 30, 2004

To the Illinois Commerce Commission:

The petitioner **CSX Transportation, Inc.** shows

163430K

- (1) That it is a railroad company operating a line of railroad in the State of Illinois.
- (2) That petitioner proposes and hereby makes application for authority to make a major change in crossing protection, or to install new protection, under 92 Illinois Administrative Code 1535.400 (d) adopted by this Commission.
- (3) That the location of the crossing, the nature of protection now established and proposed to be established, and other pertinent facts in connection therewith, are set forth in the statement attached to and forming part of this petition.
- (4) That petitioner's reasons and purpose, with reference to its said proposal are

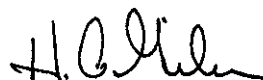
**Proposed safety improvements to accommodate for the creation of a quiet zone. Proposed installation of exit gates and loop detection system to the existing warning devices and increase of the warning time.**

- (5) That the facts set forth in this petition and in the statement and plans or plats attached thereto, are, all of them, true and correct to the best of petitioner's knowledge and belief.

WHEREFORE, the petitioner prays that the Commission will, if deemed desirable by the Commission, set the aforesaid matter for hearing, and that the Commission enter an order or adopt a resolution consenting to and granting authority for the making of the said proposed changes in or additions to crossing protection.

**CSX Transportation, Inc.**

By



**Hal Gibson  
Principal Engineer Public Projects  
Design and Construction  
904 245-1048**

**Mr. Mark Hoffman**

(Attorney for Petitioner)

**CSX Transportation, Inc.  
500 Water Street, SC J-150  
Jacksonville, FL 32202**

(Attorney's Address)

**DOCKETED**

Statement, attached to and part of an application for permission to make a major change in crossing protection or to install new protection, under 92 Ill. Adm. Code 1535.400(d).

1. Name of Railroad Company CSX Transportation, Inc.
2. Crossing Number 163 430K
3. Village or City (in) Chicago
4. Name of Street or Highway 104<sup>th</sup> Street
5. Public Agency Maintaining Highway Cook country, city of Chicago
6. Protection now established: (Give full description. Indicate the hours of any manual protection.)  
Automatic flashing light signal with bells and dual gates controlled by constant warning time (CWT) circuitry.
7. Protection desired: (Give details)  
Automatic flashing light signal, bells with existing entrance gates and new exit gates, exit gate management system with loop detection, and remote monitoring system. controlled by CWT circuitry,
8. Number of main tracks 2 Other tracks \_\_\_\_\_
9. Number of passenger train movements: 6 a.m. to 6 p.m. 0 6 p.m. to 6 a.m. 0
10. Number of freight train movements: 6 a.m. to 6 p.m. 13 6 p.m. to 6 a.m. 31
11. Approximate number of switch movements: 6 a.m. to 6 p.m. 16 6 p.m. to 6 a.m. 0
12. Maximum speed of trains at crossing on each track in each direction  
Track 1 N/E Bound 40 mph S/W Bound 40 mph  
Track 2 N/E Bound 40 mph S/W Bound 40 mph  
Track 3 N/E Bound \_\_\_\_\_ mph S/W Bound \_\_\_\_\_ mph
13. Passenger platforms served by tracks within the limits of track circuits, if any N/A
14. Where automatic signals or gates are proposed, approximately number of train or engine movements daily which would cause false indications or operation N/A

15. Nature and approximate amount of street or highway traffic over crossing

**2,009 ADDT**

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16. In addition to the information listed hereinbefore in Form 3, attach a track plan or plat of the proposed crossing. This plan should show:

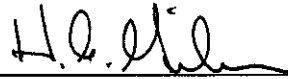
- (a) Width and surface of highway.
- (b) Highway intersections (including private driveways to be so indicated) and location of established highway signs or signals within 100 feet of crossing.
- (c) Location of tracks, switches and other railroad facilities such as block signals, etc. within limits of track circuits, present and/or proposed.
- (d) Where automatic protection is proposed, show proposed location of signals (sidelights, cantilevers, etc., if any).
- (e) Show the length of each operation track section within the control limits of the crossing protection and its function.

ADDITIONAL INFORMATION

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VERIFICATION

I, Hal Gibson, first being duly sworn upon oath depose and say that I am Principal Engineer - Public Projects of CSX Transportation, Inc., an Virginia corporation; that I have read the above and foregoing petition by me subscribed and know the contents thereof; that said contents are true in substance and in fact, except as to those matters stated upon information and belief, and as to those, I believe same to be true.

A handwritten signature in black ink, appearing to read 'H. Gibson', is written over a horizontal line.

Principal Engineer Public Projects  
Design and Construction



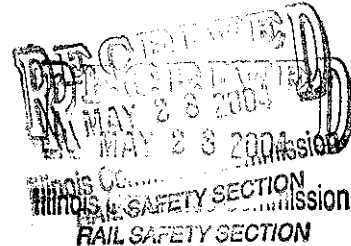
T03-0089  
X-12158

4901 Belfort Road, Suite 130  
Jacksonville, FL 32256  
E-MAIL Hal\_Gibson@csx.com  
PHONE (904) 245-1048  
FAX (904) 245-1030

**Hal A. Gibson, Jr.**  
Principal Engineer Public Projects

May 24, 2004

Mr. Dave Lazarides  
Director of Processing and Information  
Illinois Commerce Commission – Transportation Division  
527 East Capitol Avenue  
Springfield, Illinois 62701



**SUBJECT: Chicago, Cook County, Illinois – Proposed installation of four quadrant gate system at 104th Street grade crossing; MP DC-18.84; DOT# 163 430K; OP# IL0145**

Dear Mr. Lazarides,

Enclosed for your review and approval is the Signal Force Account Estimate in the amount of \$255,110.00 for the above referenced project.

We await receipt of your further advice and/or approval of the project cost and authority to proceed. If I can be of any further assistance, please do not hesitate to contact me.

Very truly yours,

Hal A. Gibson, Jr.

CSX TRANSPORTATION, INC.  
FORCE ACCOUNT ESTIMATE

Page 1

ACCT. CODE : 709 - IL0145

ESTIMATE VOID AFTER: 90 days

LOCATION: Chicago, Cook County, Illinois DOT NO.: 163 430K  
DESCRIPTION: Installation of four quadrant gate system at 104th Street grade crossing

DIVISION: Western SUB-DIV: Blue Island MILE POST: DC-18.84  
PROJ #: T03-0089

**PRELIMINARY ENGINEERING:**

Labor (Non Contract)	\$1,000
Surcharge 40.70%	\$407
Expenses	\$50
Contracted Engineering Services	\$500
<b>Subtotal</b>	<b>\$1,957</b>

**CONSTRUCTION ENGINEERING/INSPECTION:**

Labor (Non Contract)	\$600
Surcharge 40.70%	\$244
Expenses	\$100
Contracted Engineering Services	\$100
<b>Subtotal</b>	<b>\$1,044</b>

**FLAGGING SERVICE: (Contract Labor)**

Labor (Conductor-Flagman)	\$0
Labor (Foreman/Inspector)	\$0
Surcharge 118.13% (Transportation Department)	\$0
Surcharge 109.97% (Engineering Department)	\$0
Per Diem	
Expenses	
<b>Subtotal</b>	<b>\$0</b>

**SIGNAL WORK:**

Temporary (Details Attached)	
Permanent (Details Attached)	\$224,502
<b>Subtotal</b>	<b>\$224,502</b>

**TRACK WORK:**

Temporary (Details Attached)	\$0
Permanent (Details Attached)	
<b>Subtotal</b>	<b>\$0</b>

**ACCOUNTING & BILLING:**

Labor	\$2,250
Surcharge 91.78%	\$2,065
Expenses	\$100
<b>Subtotal</b>	<b>\$4,415</b>

**CONTINGENCIES:** 10.00% \$23,192

**GRAND TOTAL \*\*\*\*\* \$255,110**

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Principal Engineer - Public Improvements

Estimated By: H. A. Gibson, Jr.

Telephone: (904) 245-1048

DATE: 5/14/2004 REVISED:

Estimate No. 106052  
**CSX Transportation**

104Th St. Proposed installation of a four quadrant gate system.  
Chicago, IL

DOT: 163430K

OP: IL0145

CSX Project: IL2003041

**Summary**

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Material .....	\$ 94,195
Sales Tax .....	\$ 6,123
Labor:	
Construction Labor (128 man-days).....	\$ 34,139
Shop Labor (10 man-days).....	\$ 1,600
Subsistence (128 man-days).....	\$ 13,440
Railroad Engineering, Preliminary .....	\$ 4,901
Railroad Engineering, Construction .....	\$ 5,121
Additives to Construction Labor .....	\$ 27,421
Additives to Shop Labor .....	\$ 1,520
Additives to Engineering .....	\$ 4,079
Equipment Expenses (25 work days).....	\$ 16,250
Waste Management (22 work days).....	\$ 264
Contract Engineering .....	\$ 9,450
Freight .....	\$ 6,000
Poleline Removal .....	\$ 0
AC Power Service .....	\$ 0
Salvage .....	\$ 0

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TOTAL ESTIMATE COST .....	\$ 224,502
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Date: 03/29/2004

Estimated By: Don Norman

NOTE: This estimate should be considered void one year from date of estimate.

**Shop Material List for CSX Project: IL2003041 (Effective: 03/29/2004)**  
**INSTALL FLASHING LIGHTS WITH GATES**  
**Chicago (104th. St.), IL - DC 18.84**

Catalog Num	Cond	Unit Price	Qty	Cost	Description
N/A		9602.00	1	9602.00	"NAS RECORDER 2001 STANDARD UNIT \$9602
N/A		25091.00	1	25091.00	SHOP MATERIALS FOR RCL EGMS SYSTEM 25091
020-0003399	1	8064.42	1	8064.42	HOUSE 8X8L ALUM INCLUDES 7 SHELFs, FARADAY CLOSET, 120V
020-0017120	1	8.48	8	67.84	BLOCK TERMINAL 12 POST SINGLE STRIP AAR 14.1.6 WITH 1 AAR
020-0017211	1	268.18	1	268.18	TRANSFORMER 010520-50X LIGHT 750VA MOD SLT 50 SAFETRAN PRI
020-0017311	1	22.26	8	178.08	RESISTOR ADJUSTABLE 0.035 TO 1.50 OHMS SLIDE TYPE AAR
020-0021965	1	9.15	1	9.15	EXTRACTOR DWG 59688-4 TERMINAL GRS CAT P3-308 REF
020-0022651	1	48.01	18	864.18	PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
020-0022701	1	67.36	64	4311.04	ARRESTER LPC 15012-1 0-30V DC OR 0-24V AC RATED AT 15 AMP
020-0025595	1	16.46	1	16.46	WRENCH DWG 55393-3 GR1 "E" TERMINAL POST NUT GRS CAT
020-0053360	1	393.26	3	1179.78	CHARGER BATTERY ELC 12/20 S 20 AMP 10-19.9 VDC ROTARY SW
020-0660075	1	355.10	1	355.10	ARRESTER GE 9L10KAA212 FOR APPLICATION ON 120 VOLT
020-0750090	1	4.54	3	13.62	NUT INSULATED USE ON AAR BINDING POST TERMINAL FOR
020-0770060	1	11.66	40	466.40	ARRESTER US&S N451552-0201 TRACK SERIES RED LABEL USGA
020-0770105	1	15.78	4	63.12	ARRESTER HARMON 202217-000 AGE-1 TRACK AIR GAP EQUALIZER
020-1940055	1	5.42	1	5.42	CONTAINER CIRCUIT PRINT 24" SCHEDULE 20 4" PVC PIPE WITH
020-2501200	1	340.26	2	680.52	DRIVER 90975 RELAY VITAL 2-INPUT AND GATE SAFETRAN
020-3430110	1	265.00	14	3710.00	RELAY SAFETRAN 400004 500 OHMS CONTACTS 4FB-2F-1B CSX
020-3430115	1	508.80	1	508.80	RELAY SAFETRAN 400005 500 OHMS CONTACTS 4FB HEAVY DUTY
020-3430135	1	392.20	1	392.20	RELAY SAFETRAN 400213 460 OHMS CONTACTS 2FB CSX
020-3430170	1	354.88	1	354.88	RELAY SAFETRAN 400800-CSX 100/100 OHMS CONTACTS 6FB
020-3430185	1	371.00	1	371.00	RELAY SAFETRAN 400700-X 60 OHMS CONTACTS 4FB CSX
020-4200100	1	5.77	3	17.31	CONNECTOR BUS 1" CENTERS 1/2" X 36" 18 GAGE PUNCHED 1/4" X
020-4200340	1	1.13	40	45.20	LINK TEST OFFSET 1" CENTERS INSULATED W/POLISHED BRASS
020-4200360	1	4.46	9	40.14	LINK INSULATED TEST 2-3/8" CENTERS CENTER CONTROL TEST



**Shop Material List for CSX Project: IL2003041 (Effective: 03/29/2004)**  
**INSTALL FLASHING LIGHTS WITH GATES**  
**Chicago (104th. St.), IL - DC 18.84**

Catalog Num	Cond	Unit Price	Qty	Cost Description
020-8000067	1	14.21	2	28.42 LOCK AMERICAN H10S1GRA CSX SIGNAL PADLOCK WITH BLACK

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**Total Cost: \$ 56,704.26**

**Field Material List for CSX Project: IL2003041 (Effective: 03/29/2004)**  
**INSTALL FLASHING LIGHTS WITH GATES**  
**Chicago (104th. St.), IL - DC 18.84**

Catalog Num	Cond	Unit Price	Qty	Cost	Description
N/A		1900.00	1	1900.00	"FIELD MATERIALS FOR RCL EGMS SYSTEM \$1900"
N/A		7904.00	2	15808.00	SIGNAL CROSSING EXIT FLASHER/GATE 19'-28' ASS'Y SAF
020-0013686	1	31.96	3	95.88	BOOTLEG KIT CSX RAIL CONN W/15 FT 3/16 IN BDSTRAND 6/64
020-0013880	1	1.17	1100	1287.00	CABLE UG 7 COND NO 14 AWG SOLID C CSX SPEC SS796 SHOW
020-0013908	1	4.33	700	3031.00	CABLE UG COMPOSITE 19 CONDUCTOR INCLUDES 13
020-0025145	1	440.75	2	881.50	SHUNT ENCLOSURE INTERRAIL P/N IRS-SE8A WAYSIDE MOUNT
020-0053220	1	1.55	150	232.50	CABLE POWER UG 3 COND NO 6 AWG, SHOW LENGTH ON EACH
020-0054075	1	1205.78	2	2411.56	GATE GARD NORMAL MOVEMENT COMPLETE WITH SHEAR PIN AND
020-0057275	1	0.67	750	502.50	WIRE UG TRACK TWISTED PAIR NO. 6 AWG SOLID CONDUCTOR
020-1040304	1	162.87	6	977.22	BATTERY GNB 50A11 ABSOLTE IIP 265AH LA MAINTENANCE FREE
020-1040306	1	225.18	13	2927.34	BATTERY GNB 50A15 ABSOLTE IIP 370AH LA MAINTENANCE FREE
020-1360014	1	743.83	1	743.83	PACKAGE FOREMANS CARE FOR ALUMINUM TYPICAL BOM FOR USE
020-1360016	1	15.78	1	15.78	PACKAGE SAFETY & SECURMENT WITH 1 EA CAUTION TAG 1 EA
020-2060060	1	376.30	2	752.60	FOUNDATION ASSY 5'-7" HT TYPE S-2 SECTIONAL PRECAST
020-2531290	1	237.44	2	474.88	SHUNT HARMON 250250-392 NBS-1-10 392HZ 10 FT LEADS
020-3901895	1	84.00	2	168.00	TIP FLEX HWY CROSSING GATE 24 IN LONG RED & WHITE STRIPES
020-3920200	1	186.60	3	559.80	BELL GCWD ELECTRONIC 4" OR 5" MAST 8 TO 13 VOLTS DC GSI PN
020-3930010	1	3.60	2	7.20	KIT GATE ARM WARNING STICKER KIT INCLUDES 1-EA 5"X3"
020-3931805	1	630.70	4	2522.80	BASE 5" DOUBLE AL JT BOX W/24 DOUB TERM POST & WIRE COVER
020-4200340	1	1.13	42	47.46	LINK TEST OFFSET 1" CENTERS INSULATED W/POLISHED BRASS
020-4200900	1	0.20	22	4.40	CONNECTOR SHEATHING AMP 329860 FOR NO. 14 WIRE
020-9999991	1	100.00	1	100.00	BLOCKING AND BRACING FOR PROJECTS BURCO DIST
360-0006100	1	33.42	1	33.42	STOOL STEP WOOD 14"X 20" SIGNAL MAINTAINERS CSXT
360-0800145	1	4.18	1	4.18	BROOM WAREHOUSE CORN HVY DUTY ID300

**Total Cost: \$ 35,488.85**

**Consumables List for CSX Project: IL2003041 (Effective: 03/29/2004)**  
**INSTALL FLASHING LIGHTS WITH GATES**  
**Chicago (104th. St.), IL - DC 18.84**

Catalog Num	Cond	Unit Price	Qty	Cost Description
N/A		200.00	1	200.00 FILL DIRT
N/A		800.00	1	800.00 GRAVEL
020-0017605	1	0.19	200	38.00 WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE
020-0017607	1	0.47	200	94.00 WIRE CASE TW PR NO 10 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017630	1	0.10	200	20.00 WIRE CASE NO 16 AWG FLEX CSX SPEC SS796 FURN 1000 FT SPOOL
020-0017636	1	1.69	50	84.50 WIRE SIGNAL DEL 018 NO 6 COPPER TWISTED PAIR FOR
020-0028610	1	0.47	100	47.00 TERMINAL AMP 35628 RING YELLOW PLASTI-BOND HVY DUTY
020-0056762	1	0.36	100	36.00 TAG TEXIT HEATEX WIRE MARK 2:1 WHITE 3/8" x 1" (9.5MM X
020-0057001	1	0.30	100	30.00 TAG SLEEVE THERMAL TRANSFER CRITCHLEY P/N HS064WE1TS038
020-0057005	1	0.26	20	5.20 TAG TEXIT HEATEX WIRE MARK 2:1 WHITE 12.7MM X 38MM (1/2"
020-0057010	1	0.17	15	2.55 TAG THERMAL TRANSFER CRITCHLEY P/N HPK04WE1TX
020-4251190	1	0.59	100	59.00 TERMINAL AMP 35627 RING BLACK PLASTI-BOND WIRE SIZE 10-12
250-0010780	1	5.54	100	554.00 CONDUIT GALV RIGID 4"STL 10 LENGTH W/TAPERED THREADS ON
250-6850686	1	2.42	3	7.26 TAPE ELECTRIC 3/4IN 3M33 SIG PROJEC 3M SCOTCH BRAND 33
250-6880660	1	0.14	15	2.10 TERMINAL AMP 33465 6 STUD 1/4"
250-6880680	1	0.18	10	1.80 TERMINAL AMP 33467 6 STUD 3/8 BOWMAN 23295 3M 15-38-W 100
450-0019212	1	0.20	100	20.00 SCREW 10 X 1" SHT METAL PAN HD TYPE A COARSE THREAD
<b>Total Cost: \$</b>				<b>2,001.41</b>